

## Patent Abstracts of Japan

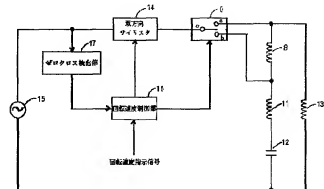
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APPLICANT : FUJITSU GENERAL LTD;

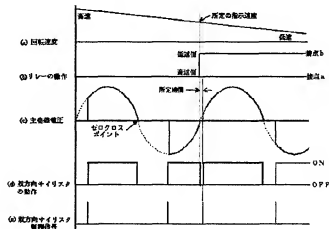
INVENTOR : KOJIMA TOMONORI;

INT.CL. : H02P 7/36

TITLE : SINGLE-PHASE INDUCTION MOTOR



(A)



(B)

**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a single-phase induction motor in which the vibration of the motor can be suppressed even when a bracket made of a metal is used without constituting a molded motor in which the overall motor is coated with a resin.

**SOLUTION:** A deceleration winding 8, an auxiliary winding 11 and a capacitor 12 are connected in series with one another, connected in parallel with a main winding 13, a contact a of a relay 9 is connected to one end of the winding 13, and a connecting point of the winding 8 to the winding 11 is connected to a contact b of the relay 9. Further, a common contact c of the relay 9 is connected to the output end of a bidirectional thyristor 14, one pole of a single-phase AC power source 15 is connected to other end of the winding 13, and another electrode of the power source 15 is connected to the input end of the thyristor 14. When the motor is rotated at a predetermined indicating speed or higher, the contact c of the relay 9 is connected to the contact a, and when the motor is rotated at a predetermined indicating speed or lower, the contact b is switched, and the thyristor 14 is phase-controlled in the respective speed ranges.

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